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174, Sri Ranga Complex
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URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

No.: CECTC-NLP-PMC-2014-15 **Date:** 07.07.2014

Aggregate Impact Value
IS: 2386 Part IV

nt	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
ncy	**Sri. L.Nithyananda Prabhu**, Contractor, Bangalore.
me of the Work	Providing and Laying HDPE Water line in Channappa Garden and Sundar Nagara Block-II in JP Park, Ward No 17.
ference	EE/RRND/W.O/220/2013-14 Dated: 05.02.2014
pe of Mix	Wet Mix macadam
te of Testing	07.07.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	380	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	88	90	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	292	294	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	22.22	23.16	23.44	22.94

omments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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No.: CECTC-LNP-PMC-2014-15 Date : 07.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

ent **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

gency **Sri. L.Nithyananda Prabhu**, Contractor, Bangalore.

me of Work Providing and Laying HDPE Water line in Channappa Garden and Sundar Nagara Block-II in JP Park, Ward No 17.

ference EE/RRND/W.O/220/2013-14 Dated: 05.02.2014

ate of Testing : 07.07.2014

aterial Type : Wet Mix Macadam

Oven Dry.Wt 12209

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	486	486	4.0	96.0	95-100
22.4	4136	4622	37.9	62.1	60-80
11.2	2412	7034	57.6	42.4	40-60
4.75	1741	8775	71.9	28.1	25-40
2.36	1236	10011	82.0	18.0	15-30
0.600	1023	11034	90.4	9.6	8-22
0.075	845	11879	97.3	2.7	0-8

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ference EE/RRND/W.O/220/2013-14 Dated: 05.02.2014

ate of Testing : 07.07.2014

aterial Type : Wet Mix Macadam

Oven Dry.Wt 12788

s Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	479	479	3.7	96.3	95-100
22.4	4463	4942	38.6	61.4	60-80
11.2	2415	7357	57.5	42.5	40-60
4.75	1852	9209	72.0	28.0	25-40
2.36	1123	10332	80.8	19.2	15-30
0.600	1325	11657	91.2	8.8	8-22
0.075	801	12458	97.4	2.6	0-8

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Job No.:CECTC-LNP-PMC-2014-15 Date: 07.07.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri. L.Nithyananda Prabhu**, Contractor, Bangalore.
Name of Work	Providing and Laying HDPE Water line in Channappa Garden and Sundar Nagara Block-II in JP Park, Ward No 17.
Reference	EE/RRND/W.O/220/2013-14 Dated: 05.02.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Bituminous Macadam
Date of Testing	07.07.2014

Result : Flakiness Index = **14.89%**

Elongation Index = **10.32%**

Result : Combined Flakiness & Elongation index **25.21%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 30%

Note:

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

b No.:CECTC-LNP-PMC-2014-15 Date: 07.07.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

lient	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
gency	**Sri. L.Nithyananda Prabhu,** Contractor, Bangalore.
Jame of Work	Providing and Laying HDPE Water line in Channappa Garden and Sundar Nagara Block-II in JP Park, Ward No 17.
eference	EE/RRND/W.O/220/2013-14 Dated: 05.02.2014
echnical Reference	IS 2386(Part 1) 1963 (RA 2007)
ype of Mix	Bituminous Macadam
Date of Testing	07.07.2014

Result : Flakiness Index = **13.65%**

Elongation Index = **9.87%**

Result : Combined Flakiness & Elongation index **23.52%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 30%

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